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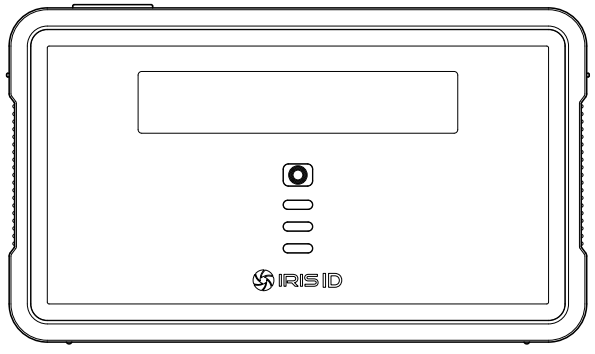
iCAM TD100 Quick Start Guide

Version 1.01



- High speed dual iris capture
- Compact and lightweight
- Intuitive operator guidance system
- Single motion automatic iris & face capture

General Information

The iCAM TD100 includes an optical system designed to operate with the integrated high speed multi-sensor iris imager array. The iCAM TD100 will automatically process and outputs high quality ISO standards compliant iris images of a subject in less than one second.

Dimensions (W x H x D)	5.9” x 3.3” x 1.2” (150mm x 83mm x 30.5mm)
Power Input	5V DC (PWR Consumption: 900mA Max)
Iris Capture	Automatic Dual Iris Capture, Capture Distance 13” (330 +/- 20 mm)
Face/Scene Capture	1600 x 1200 2MP Image Sensor - 4.62 mm @ F# 3.2
Iris Enrollment	Less than 2 seconds for complete two iris capture Less than 8 seconds for complete transaction (includes face & iris)
Face Capture	ISO/IEC 19794-5 Compliant, Approximately 30”~ 36” from subject for proper framing, Manual or Auto Focus available
Scene Capture	Manual or Auto Focus available through API
Sound	Software volume control level - Audio files can be uploaded to unit
Resolution	1600 x 1200, 800 x 600 resolution
Speaker	1 W 17mm dia speaker
LCD Display	3.5” Color LCD
Shutter Button	Wake Up / Capture Face / Capture Scene
Operating Range	13” (330mm)

1. What’s in the Box

Equipment Supplied with iCAM TD100:

- iCAM TD100 - IrisCamera
- Power Adapter
  5VDC Power Supply
  120/240VAC 50/60Hz
- USB + Power Cable
- Power Cord
- CD-ROM (Software Disk)
- Quick Start Guide

Interface:

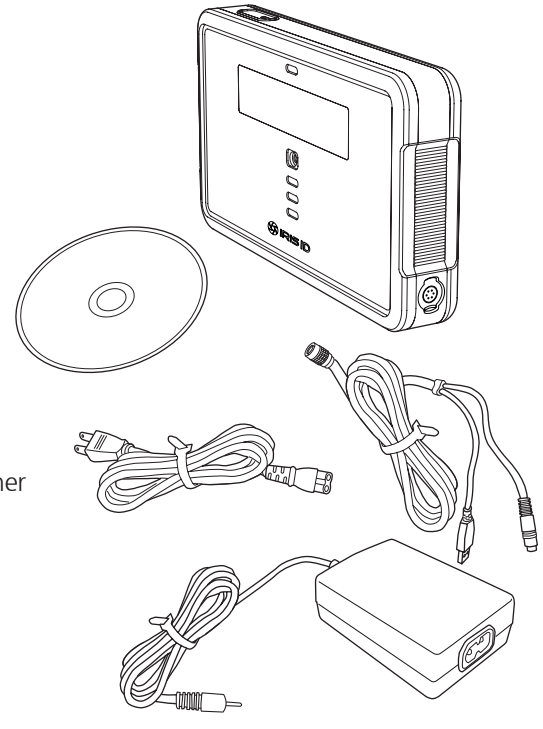
- High Speed USB 2.0

PC Requirements:

- OS: Windows® XP / 7(32-bit) / 7(64bit)
- Processor: x86 compatible CPU 2.0GHz or higher
- Memory: 2GB or higher
- Hard Disk: 2GB or higher

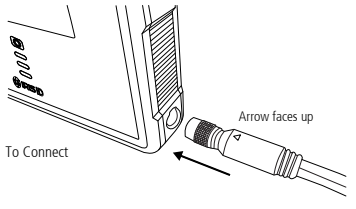
Required Equipment (not included with iCAM TD100):

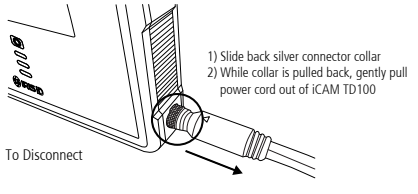
- Windows based PC
- Uninterruptible Power Supply (recommended)

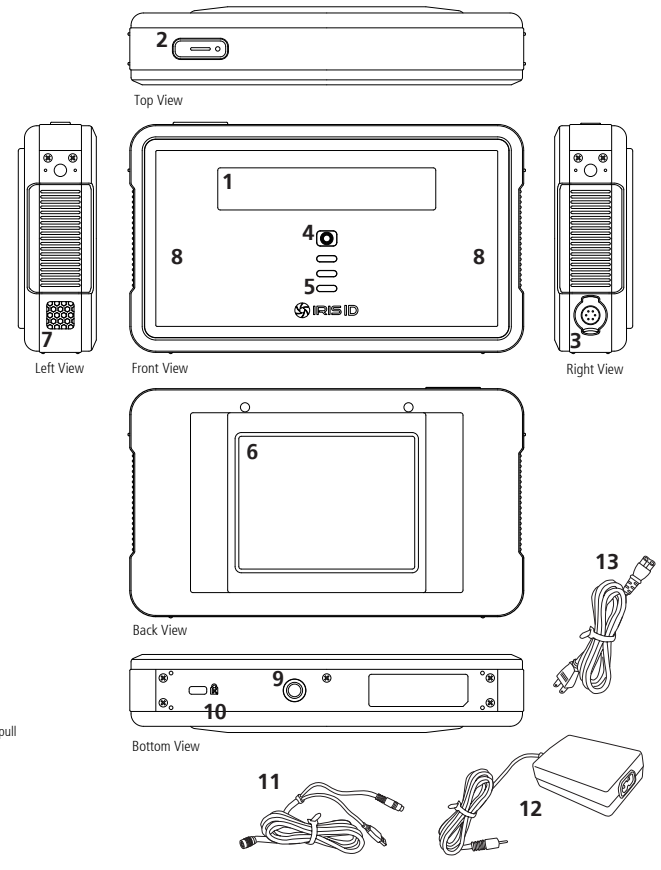


2. Hardware Operation Controls

1) Cold Mirror
2) Shutter Button
3) USB + Power Connector
4) Face Camera
5) LED Indicator
6) 3.5 inch TFT-LCD Display
7) Internal Speaker
8) IR Illuminations
9) Tripod Socket
10) Kensington Lock Slot
11) USB + Power Cable
12) Power Adapter
13) Power Cord







3. iCAM TD100 SDK Software Installation (Drivers included w/install)

** **Note:** BEFORE CONNECTING iCAM TD100 to your PC: Install software included in CD.*

1. Insert iCAM TD100 SDK disc into the CD-ROM drive.

2. Open the _x86 or _x64 folder from the CD-ROM drive. (Note: x86=32bit OS, x64= 64bit OS)

3. Open the Setup folder.

4. Select the Setup.exe Setup Launcher icon as shown in Fig.1.

5. Select > Next at the Welcome to the InstallShield Wizard for iCAM TD100 SDK as shown in Fig.2.

6. Select radio button for License Agreement and press > Next.

7. Select destination folder to install and press > Next as shown in Fig.3.

8. Select > Next when the "Start Copying files - Review copying files" screen appears as shown in Fig.4.

9. Select > Finish to complete installation of software successfully.

> ***Important:** If using older TD100 devices, refer to section 8 in the User Manual.*

10. To verify proper installation of drivers, open Device Manager - Universal Serial Controllers section (w/ unit connected).

***Note:** In the event that a Windows Security warning dialogue box appears as shown in Fig.5, select **Install this driver software anyway** to continue the driver installation process – This warning may appear multiple times during the installation.*

> ***Note:** For the latest software version of iCAM TD100 SDK, visit http://www.irisid.com/ss/software.*

Fig.1

Fig.2

Fig.3

Fig.4

Fig.5

4. iCAM TD100 SDK Sample Application

The sample application is located in \Program files\Iris ID Systems\iCAM TD100 SDK\Samples . This program consists of two parts; 1) Capturing images such as iris, face and scene through an iCAM TD100, and 2) Matching by iris images. The Matching portion of this sample application is an example section of how to manage information related to iris images and user's data.

5. Operations

Iris Image Capture Process:

Fully automatic dual iris image capture routines are available as a part of the iCAM TD100 SDK API set for the field application of the iCAM TD100. An illustration of the iris capture GUI screen is shown below. iData SDK runtime license for iris enrollment and quality assessment is available for use with the iCAM TD100. Iris and Face capture are performed by the operator extending their arm from the face capture distance to the iris capture distance as illustrated below.

IMPORTANT: DO NOT BLOCK IR ILLUMINATION WHEN ACQUIRING AND/OR CAPTURING IRIS IMAGES (SEE SECTION 2 HARDWARE OPERATION CONTROLS #8 FOR LOCATIONS)

Face Image Capture Process:

The face capture API function is included in the SDK.

- The integrated framing function provides feedback for the capture of a properly formatted ISO/ICAO face image.
- Manual face capture with auto focus is also possible through the camera calls in the TD100 SDK sample application.
- An application developer can also use host based face finding to trigger the face capture automatically from the host processor.
- Face capture can be initiated through API or via the shutter button on the iCAM TD100. Sample illustrations of face capture modes are shown below:

6. Technical Support

Additional information and technical assistance is available on the Iris ID Systems' support web site at www.irisid.com, click on Support & Service then Technical Support.

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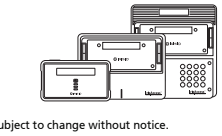

Document # IRISIDTD100-02-0101-0311